

CAN Isolator 2 Click



PID: MIKROE-4809

CAN Isolator 2 Click is a compact add-on board that provides isolated CAN communication. This board features the ISO1042, an isolated CAN transceiver from Texas Instruments. This galvanically-isolated CAN transceiver meets the ISO11898-2 specifications and offers a +/-70V DC bus fault protection, along with the +/-30V of common mode voltage range. The transceiver supports two CAN modes, with speeds of up to 1Mbps in Classic CAN and flexible data rate (FD) CAN, which allows much faster transfer of payload compared to the classic CAN with up to 5Mbps. This Click board™ makes the perfect solution for the development of solar inverters, AC and servo drives, industrial field networks, PLC and DCS communication modules, battery charging and management, and more.

CAN Isolator 2 Click is supported by a [mikroSDK](#) compliant library, which includes functions that simplify software development. This [Click board™](#) comes as a fully tested product, ready to be used on a system equipped with the [mikroBUS™](#) socket.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system.
 ISO 14001: 2015 certification of environmental management system.
 OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

Specifications

Type	CAN,Isolators
Applications	Can be used for the development of solar inverters, AC and servo drives, industrial field networks, PLC and DCS communication modules, battery charging and management, and more
On-board modules	ISO1042 - isolated CAN transceiver from Texas Instruments
Key Features	The fully isolated interface between the CAN protocol controller and the physical layer bus, capable of running at data rates of up to 5Mbps, robust electromagnetic compatibility, ideal passive high impedance bus terminal when unpowered, long bus cable length, dominant and recessive states during operation, and more
Interface	UART
ClickID	No
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V,External

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

Downloads

[CAN Isolator 2 click 2D and 3D files](#)

[ISO1042 datasheet](#)

[CAN Isolator 2 click schematic](#)

[CAN Isolator 2 click example on Libstock](#)

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